SEQUENCE LISTING

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- <120> Vascular Endothelial Growth Factor-X
- <130> 51935/004
- <140> PCT/US99/30503
- <141> 1999-12-21
- <150> GB 9828377.3
- <151> 1998-12-22
- <150> US 60/124,967
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- <150> US 60/164,131
- <151> 1999-11-08
- <160> 97
- <170> PatentIn Ver. 2.0
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- Tyr Gly Val Gln Asp Pro Gln His Glu Arg Ile Ile Thr Val Ser Thr 20 25 30
- Asn Gly Ser Ile His Ser Pro Arg Phe Pro His Thr Tyr Pro Arg Asn 35 40 45
- Thr Val Leu Val Trp Arg Leu Val Ala Val Glu Asn Val Trp Ile
 50 55 60
- Gln Leu Thr Phe Asp Glu Arg Phe Gly Leu Glu Asp Pro Glu Asp Asp 65 70 75 80
- Ile Cys Lys Tyr Asp Phe Val Glu Val Glu Glu Pro Ser Asp Gly Thr 85 90 95
- Ile Leu Gly Arg Trp Cys Gly Ser Gly Thr Val Pro Gly Lys Gln Ile 100 105 110
- Ser Lys Gly Asn Gln Ile Arg Ile Arg Phe Val Ser Asp Glu Tyr Phe 115 120 125
- Pro Ser Glu Pro Gly Phe Cys Ile His Tyr Asn Ile Val Met Pro Gln 130 135 140

Phe Thr Glu Ala Val Ser Pro Ser Val Leu Pro Pro Ser Ala Leu Pro 145 150 155 160

Leu Asp Leu Leu Asn Asn Ala Ile Thr Ala Phe Ser Thr Leu Glu Asp 165 170 175

Leu Ile Arg Tyr Leu Glu Pro Glu Arg Trp Gln Leu Asp Leu Glu Asp 180 185 190

Leu Tyr Arg Pro Thr Trp Gln Leu Leu Gly Lys Ala Phe Val Phe Gly 195 200 205

Arg Lys Ser Arg Val Val Asp Leu Asn Leu Leu Thr Glu Glu Val Arg 210 215 220

Leu Tyr Ser Cys Thr Pro Arg Asn Phe Ser Val Ser Ile Arg Glu Glu 225 230 235 240

Leu Lys Arg Thr Asp Thr Ile Phe Trp Pro Gly Cys Leu Leu Val Lys 245 250 255

Arg Cys Gly Gly Asn Cys Ala Cys Cys Leu His Asn Cys Asn Glu Cys 260 265 270

Gln Cys Val Pro Ser Lys Val Thr Lys Lys Tyr His Glu Val Leu Gln 275 280 285

Leu Arg Pro Lys Thr Gly Val Arg Gly Leu His Lys Ser Leu Thr Asp 290 295 300

Val Ala Leu Glu His His Glu Glu Cys Asp Cys Val Cys Arg Gly Ser 305 310 315 320

Thr Gly Gly

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Ser Ser Asn Lys Glu Gln Tyr Gly Val Gln Asp Pro Gln His Glu Arg 35 40 45

Ile Ile Thr Val Ser Thr Asn Gly Ser Ile His Ser Pro Arg Phe Pro 50 55 60

His Thr Tyr Pro Arg Asn Thr Val Leu Val Trp Arg Leu Val Ala Val 65 70 75 80

Glu Glu Asn Val Trp Ile Gln Leu Thr Phe Asp Glu Arg Phe Gly Leu 85 90 95 Glu Asp Pro Glu Asp Asp Ile Cys Lys Tyr Asp Phe Val Glu Val Glu 100 105 110

Glu Pro Ser Asp Gly Thr Ile Leu Gly Arg Trp Cys Gly Ser Gly Thr 115 120 125

Val Pro Gly Lys Gln Ile Ser Lys Gly Asn Gln Ile Arg Ile Arg Phe 130 135 140

Val Ser Asp Glu Tyr Phe Pro Ser Glu Pro Gly Phe Cys Ile His Tyr 145 150 155 160

Asn Ile Val Met Pro Gln Phe Thr Glu Ala Val Ser Pro Ser Val Leu 165 170 175

Pro Pro Ser Ala Leu Pro Leu Asp Leu Leu Asn Asn Ala Ile Thr Ala 180 185 190

Phe Ser Thr Leu Glu Asp Leu Ile Arg Tyr Leu Glu Pro Glu Arg Trp 195 200 205

Gln Leu Asp Leu Glu Asp Leu Tyr Arg Pro Thr Trp Gln Leu Leu Gly
210 220

Lys Ala Phe Val Phe Gly Arg Lys Ser Arg Val Val Asp Leu Asn Leu 225 230 235 240

Leu Thr Glu Glu Val Arg Leu Tyr Ser Cys Thr Pro Arg Asn Phe Ser 245 250 255

Val Ser Ile Arg Glu Glu Leu Lys Arg Thr Asp Thr Ile Phe Trp Pro 260 265 270

Gly Cys Leu Leu Val Lys Arg Cys Gly Gly Asn Cys Ala Cys Cys Leu 275 280 285

His Asn Cys Asn Glu Cys Gln Cys Val Pro Ser Lys Val Thr Lys Lys 290 295 300

Tyr His Glu Val Leu Gln Leu Arg Pro Lys Thr Gly Val Arg Gly Leu 305 310 315 320

His Lys Ser Leu Thr Asp Val Ala Leu Glu His His Glu Glu Cys Asp 325 330 335

Cys Val Cys Arg Gly Ser Thr Gly Gly 340 345

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gtacaagatc ctcagcatga gagaattatt actgtgtcta ctaatggaag tattcacagc 180

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gaggaaaatg tatggataca acttacgttt gatgaaagat ttgggcttga agacccagaa
300
gatgacatat gcaagtatga ttttgtagaa gttgaggaac ccagtgatgg aactatatta
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gttactaaaa aataccacga ggtccttcag ttgagaccaa agaccggtgt caggggattg
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17
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<213> Homo sapiens
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Gly Ser Ile His Ser Pro Arg Phe Pro His Thr Tyr Pro Arg Asn Thr
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Val Leu Val Trp Arg Leu Val Ala Val Glu Glu Asn Val Trp Ile Gln
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Leu Thr Phe Asp Glu Arg Phe Gly Leu Glu Asp Pro Glu Asp Asp Ile
50 55 60

Cys Lys Tyr Asp Phe Val Glu Val Glu Glu Pro Ser Asp Gly Thr Ile 65 70 75 80

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Lys Gly Asn Gln Ile Arg Ile Arg Phe Val Ser Asp Glu Tyr Phe 100 105 110

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<211> 168

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<400> 27

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His His Glu Ser Asn Leu Ser Ser Lys Phe Gln Phe Ser Ser Asn 20 25 30

Lys Glu Gln Asn Gly Val Gln Asp Pro Gln His Glu Arg Ile Ile Thr 35 40 45

Val Ser Thr Asn Gly Ser Ile His Ser Pro Arg Phe Pro His Thr Tyr 50 55 60

Pro Arg Asn Thr Val Leu Val Trp Arg Leu Val Ala Val Glu Glu Asn 65 70 75 80

Val Trp Ile Gln Leu Thr Phe Asp Glu Arg Phe Gly Leu Glu Asp Pro 85 90 95

Glu Asp Asp Ile Cys Lys Tyr Asp Phe Val Glu Val Glu Glu Pro Ser 100 105 110

Asp Gly Thr Ile Leu Gly Arg Trp Cys Gly Ser Gly Thr Val Pro Gly
115 120 125

Lys Gln Ile Ser Lys Gly Asn Gln Ile Arg Ile Arg Phe Val Ser Asp 130 135 140

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Met Pro Gln Phe Thr Glu Ala Val 165

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cctcatactt atccaagaaa tacggtcttg gtatggagat tagtagcagt agaggaaaat
gtatggatac aacttacgtt tgatgaaaga tttgggcttg aagacccaga agatgacata
tgcaagtatg attttgtaga agttgaggaa cccagtgatg gaactatatt agggcgctgg
tgtggttctg gtactgtacc aggaaaacag atttctaaag gaaatcaaat taggataaga
420
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atgccacaat tcacagaagc tgtg
504
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Gly Arg Lys Ser Arg Val Val Asp Leu Asn Leu Leu Thr Glu Glu Val
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                                                      30
Arg Leu Tyr Ser Cys Thr Pro Arg Asn Phe Ser Val Ser Ile Arg Glu
Glu Leu Lys Arg Thr Asp Thr Ile Phe Trp Pro Gly Cys Leu Leu Val
     50
                                              60
Lys Arg Cys Gly Gly Asn Cys Ala Cys Cys Leu His Asn Cys Asn Glu
Cys Gln Cys Val Pro Ser Lys Val Thr Lys Lys Tyr His Glu Val Leu
                                     90
                                                          95
Gln Leu Arg Pro Lys Thr Gly Val Arg Gly Leu His Lys Ser Leu Thr
Asp Val Ala Leu Glu His His Glu Glu Cys Asp Cys Val Cys Arg Gly
        115
                                                 125
Ser Thr Gly Gly
    130
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agtggctgat tctattagag aacgtatgcg ttatctccat ccttaatctc agttgtttgc
180
ttcaaggacc tttcatcttc aggatttaca gtgcattctg aaagaggaga catcaaacag
aattaggagt tgtgcaacag ctcttttgag aggaggctaa aggacaggag aanaggtctt
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<211> 284
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tcaaacagaa ttaggagttg tgcaacagct cttttgagag gaggcctaaa ggacaggaga
aaaggtcttc aatcgtggaa agaaaattaa atgttgtatt aaatagatca ccagctagtt
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284
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tcttcaggat ttacagtgca ttctgaaaga ggaga
275
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<212> DNA
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ttctattaga gaacgtatgc gttatctcca tccttaatct cagttgtttg cttcaaqqac
120
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ctttcatctt caggatttac agtgcattct gaaagaggag acatcaaaca gaattaggag
ttgtgcaaca gctcttttga gaggaggcct aaaggacagg agaaaaggtc ttcaatcgtg
gaaagaanat taaatgttgt attaaataga caccagct
278
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<211> 275
<212> DNA
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ctttcatctt caggatttac atgcattctg aaagaggaga catcaaacag aattaggagt
tgtgcaacag ctcttttgag aggaggccta aaggacagga gaaaaggtct tcaatcgtgg
aaagaaaatt aaatgttgta ttaaatagat cacca
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<211> 261
<212> DNA
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120
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caccgacgtg gccctggagc accatgagga gtgtgactgt gtgtgcagag ggagcacagg
aggatagccg catcaccacc a
261
<210> 36
<211> 279
<212> DNA
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acacctcgta acttctcagt gtccataagg gaagaactaa agagaaccga taccattttc
tggccaggtt gtctcctggt taaacgctgt ggtgggaact gtgcctgttg tctccacaat
180
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279
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aactaaagag aaccgatacc attttctggc caggttgtct cctggttaaa cgctgtggtg
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120
gaaanaaaat taaatgttgt attaaataga tcaccagcta gtttcagagt taccatgtac
gtattccact agctgggttc tgtatttcag ttctttcgat acggcttagg gtaatgtcag
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cagagggagc acaggaggat agccgcatca ccaccagcag ctcttgccca gagctgtgca
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240
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245
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attctgaaag aggagacatc aaacagaatt aggagttgtg caacagctct tttgagagga
ggcctaaagg ncaggagaaa aggtcttcaa tcgtggaaag aaaattaaat gttgtattaa
240
atagatc
247
<210> 41
<211> 232
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aactaaagag aaccgatacc attttctggc caggttgtct cctggttaaa cgctgtggtg
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232
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<211> 253
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aggaggccta aaggacagga gaaaaggtct tcaatcgtgg aaagaaaatt aaatgttgta
120
ttaaatagat caccagctag tttcagagtt accatgtacg tattccacta gctgggttct
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gtgagcacct gat
253
<210> 43
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aaqgacagga gaaaaggtct ncaatcgtgg aaagnaaatt aaatgttgta tnaaatngat
caccagctag tttcagagtt accatgtacg tattccacta gctgggncng tattcagtct
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agtgagcacc tgattccgtt gccttggctt aactctaaag ctccatgtcc tgggcctaaa
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а
181
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gagcacctga ttccgttgcc ttgcttaact ctaaagctcc atgtcctggg cctaaaatcg
180
tata
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<211> 290
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 48
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tcatatttct tattaaaatt tctgccattt agaagaagag aactacattc atggtttgga
agagataaac ctgaaaagaa gagtggcctt atcttcactt tatcgataag tcagtttatt
tgtttcattg tgtacatttt tatattctcc ttttgacatt ataactgttg gcttttctaa
tcttgttaaa tatatctatt tttaccaaag gtatttaata ttcttttta
290
<210> 49
<211> 300
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 49
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gggagcacag gaggatagcc gcatcaccac cagcagctct tgcccagagc tgtgcagtgc
120
agtggctgat tctattagag aacgtatgcg ttatctccat ccttaatctc agttgtttgc
ttcaaggacc tttcatcttc aggatttaca gtgcattctg aaagaggaga catcaaacag
aattaggagt tgtgcaacag ctcttttgag aggaggctaa aggacaggag aanaggtctt
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<210> 50
<211> 284
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 50
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ttgtttgctt caaggacctt tcatcttcag gatttacagt gcattctgaa agaggagaca
120
tcaaacagaa ttaggagttg tgcaacagct cttttgagag gaggcctaaa ggacaggaga
aaaggtcttc aatcgtggaa agaaaattaa atgttgtatt aaatagatca ccagctagtt
tcagagttac catgtacgta ttccactagc tgggttctgt attt
284
<210> 51
<211> 301
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 51
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gatcaactat ttttagcttg gtaaattttt ctaaacacaa ttgttatagc cagaggaaca
120
aagatgatat aaaatattgt tgctctgaca aaaatacatg tatttcattc tcgtatggtg
180
ctagagttag attaatctgc attttaaaaa actgaattgg aatagaattg gtaagttgca
aagacttttt ganaataatt aaattatcat atcttccatt cctgttattg ggggagaaaa
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t
301
<210> 52
<211> 275
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 52
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gacgtggccc tggagcacca tgaggagtgt gactgtgtgt gcagagggag cacaggggga
tagccgcatc accaccagca gctcttgccc agagctgtgc agtgcagtgg ctgattctat
tagagaacgt atgcgttatc tccatcctta atctcagttg tttgcttcaa ggacctttca
tcttcaggat ttacagtgca ttctgaaaga ggaga
275
<210> 53
<211> 288
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 53
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tttttcatat ttcttattaa aatttctgcc atttagaaga agagaactac attcatggtt
tggaagagat aaacctgaaa agaagagtgg ccttatcttc actttatcga taagtcagtt
tatttgtttc attgtgtaca tttttatatt ctccttttga cattataact gttggctttc
taatctgtta aatatcta tttttaccaa aggtatttaa tattcttt
288
<210> 54
<211> 278
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 54
ggaggatagc cgcatcacca ccagcagctc ttgcccagag ctgtgcagtg cagtggctga
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ctttcatctt caggatttac agtgcattct gaaagaggag acatcaaaca gaattaggag
ttgtgcaaca gctcttttga gaggaggcct aaaggacagg agaaaaggtc ttcaatcqtq
gaaagaanat taaatgttgt attaaataga caccagct
278
<210> 55
<211> 275
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 55
ggaggatage egeateacea ceageagete ttgeecagag etgtgeagtg cagtggetga
60
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ttctattaga gaacgtatgc gttatctcca tccttaatct cagttgtttg cttcaaggac
ctttcatctt caggatttac atgcattctg aaagaggaga catcaaacag aattaggagt
tgtgcaacag ctcttttgag aggaggccta aaggacagga gaaaaggtct tcaatcgtgg
aaaqaaaatt aaatgttgta ttaaatagat cacca
275
<210> 56
<211> 261
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 56
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120
ataccacgag gtccttcagt tgagaccaaa gaccggtgtc aggggattgc acaaatcact
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caccgacgtg gccctggagc accatgagga gtgtgactgt gtgtgcagag ggagcacagg
aggatagccg catcaccacc a
261
<210> 57
<211> 279
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 57
agaaaatcca gagtggtgga tctgaacctt ctaacagagg aggtaagatt atacagctgc
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tggccaggtt gtctcctggt taaacgctgt ggtgggaact gtgcctgttg tctccacaat
180
tgcaatgaat gtcaatgtgt cccaagcaaa gttactaaaa aataccacga ggtccttcag
240
ttgagaccaa agaccggtgt caggggattg cacaaatca
279
<210> 58
<211> 259
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 58
agatgatata aaatattgtt gctctgacaa aaatacatgt atttcattct cgtatggtgc
tagagttaga ttaatctgca ttttaaaaaaa ctgaattgga atagaattgg taagttgcaa
120
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agactttttg aaaataatta aattatcata tcttccattc ctgttattgg agatgaaaat
aaaaagcaac ttatgaaagt agacattcag atccagccat tactaaccta ttcctttttt
ggggaaatct gagcctagc
259
<210> 59
<211> 284
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 59
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ggatttttca tatttcttat taaaatttct gccatttaga agaagagaac tacattcatg
120
gtttggaaga gataaacctg aaaagaagag tggcctatct tcactttatc gataagtcag
180
tttatttgtt tcattgtgta catttttata ttctcctttg acatataact gttggctttt
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284
<210> 60
<211> 262
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 60
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cagaggaggt aagattatac agctgcacac ctcgtaactt ctcagtgtcc ataagggaag
aactaaagag aaccgatacc attttctggc caggttgtct cctggttaaa cgctgtggtg
ggaactgtgc ctgttgtctc ccacaattgc aatgaatgtc aatgtgtccc aagcaaagtt
actaaaaaat accacqaqqt cc
262
<210> 61
<211> 289
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 61
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ttgtgcaaca gctcttttga gaggaggcct aaaggacagg agaaaaggtc ttcaatcgtg
gaaanaaaat taaatgttgt attaaataga tcaccagcta gtttcagagt taccatgtac
180
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gtattccact agctgggttc tgtatttcag ttctttcgat acggcttagg gtaatgtcag
  tacaggaaaa aaactgtgca agtgagcacc tgattccgtt gccttgctt
  289
  <210> 62
  <211> 251
  <212> DNA
  <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Human EST
  <400> 62
  ttagcttggn aaatttttct aaacacaatt gttatagcca gaggaacaaa gatgatataa
  aatattqttq ctctqacaaa aatacatgta tttcattctc gtatggtgct agagttagat
  taatctgcat tttaaaaaac tgaattggaa tagaattggt aagttgcaaa gactttttga
  aaataattaa attatcatat cttccattcc tgttattgga gatgaaaata aaaagcaact
  tatganagta g
  251
  <210> 63
。 <211> 252
  <212> DNA
  <213> Artificial Sequence
  <223> Description of Artificial Sequence: Human EST
  <400> 63
  cttttttatg acaacttaga tcaactattt ttagcttggt aaatttttct aaacacaatt
  gttatagcca gaggaacaaa gatgatataa aatattgttg ctctgacaaa aatacatgta
  120
  tttcattctc gtatggtgct agagttagat taatctgcat tttaaaaaaac tgaattggaa
  tagaattggt aagttgcaaa ggctttttga aaataattaa attatcatat cttccattcc
  240
  tgttattggn gg
  252
  <210> 64
  <211> 245
  <212> DNA
  <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Human EST
  <400> 64
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  attgcacaaa tcactcaccg acgtggccct ggagcaccat gaggagtgtg actgtgtgtg
  120
  cagagggagc acaggaggat agccgcatca ccaccagcag ctcttgccca gagctgtgca
  qtqcaqtggc tgattctatt agagaacgta tgcgttatct ccatccttaa tctcagttgt
  240
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ttgct
245
<210> 65
<211> 245
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 65
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tttcattgtg tacattttta tattctcctt ttgacattat aactgttggc ttttctaatc
ttgttaaata tatctatttt taccaaaggt atttaatatt cttttttatg acaacttaga
tcaactattt ttagcttggt aaatttttct aaacacaatt gttatagcca gaggaacaaa
240
gatga
245
<210> 66
<211> 243
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 66
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tggtttggaa gagataaacc tgaaaagaag agtggcctta tcttcacttt atcgataagt
120
cagtttattt gtttcattgt gtacattttt atattctcct tttgacatta taactgttgg
cttttctaat cttgttaaat atatctattt ttaccaaagg tatttaatat tctttttat
240
gac
243
<210> 67
<211> 244
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 67
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gganctatgt tgctatgaat taaacttgtg tcgtgctgat aggacagact ggatttttca
tatttcttat taaaatttct gccatttaga agaagagaac tacattcatg gtttggaaga
gataaacctg aaaagaagag tggccttatc ttcantttat cgataagtca gtttatttgt
240
ttca
244
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<210> 68
<211> 247
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
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120
attctgaaag aggagacatc aaacagaatt aggagttgtg caacagctct tttgagagga
ggcctaaagg ncaggagaaa aggtcttcaa tcgtggaaag aaaattaaat gttgtattaa
240
atagatc
247
<210> 69
<211> 233
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 69
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gctagagtta gattaatctg cattttaaaa aactgaattg gaatagaatt ggtaagttgc
aaagactttt tgaaaataat taaattatca tatcttccat tcctgttatt ggagatgaaa
180
ataaaaagca acttatgaaa gtagacattc agatccagcc attactaacc tat
<210> 70
<211> 232
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 70
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cagaggaggt aagattatac agctgcacac ctcgtaactt ctcagtgtcc ataagggaag
120
aactaaagag aaccgatacc attttctggc caggttgtct cctggttaaa cgctgtggtg
ggaactgtgc ctgttgtctc cacaattgca atgaatgtca atgtgtccca ag
232
<210> 71
<211> 253
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Human EST
<400> 71
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aggaggccta aaggacagga gaaaaggtct tcaatcgtgg aaagaaaatt aaatgttgta
ttaaatagat caccagctag tttcagagtt accatgtacg tattccacta gctgggttct
gtatttcagt tctttcgata cggcttaggg taatgtcagt acaggaaaaa aactgtgcaa
240
gtgagcacct gat
253
<210> 72
<211> 233
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 72
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60
tatatctatt tttaccaaag gtatttaata ttctttttta tgacaactta gatcaactat
120
ttttagcttg gtaaattttt ctaaacacaa ttgttatagc cagaggaaca aagatgatat
aaaatattgt tgctctgaca aaaatacatg tatttcattc tcgtatggtg cta
233
<210> 73
<211> 250
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 73
cacaattgtt atagccagag gaacaaagat gatataaaat attgttgctc tgncaaaaat
acatgtattt cattctcgta tggtgctaga gttagattaa tctgcatttt aaaaaactga
120
attggaatag aattggtaag ttgcaaagac tttttgaaaa taattaaatt atcatatctt
180
ccattcctgt tattggagat gaaaataaaa agcaacttat gaaagtaaat tcagatccac
240
cattactaac
250
<210> 74
<211> 247
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
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<400> 74

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atttcattct cgtatggtgc tagagttaga ttaatctgca ttttaaaaaaa ctgaattgga
atagaattgg taagttgcaa agactttttg aaaataatta aattatcata tcttccattc
120
ctgttattgg agatgaaaat aaaaagcaac ttatgaaagt agacattcag atccagccat
tactaaccta ttccttttt ggggaaatct gagcctagct cagaaaaaca taaagcacct
tgaaaaa
247
<210> 75
<211> 265
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 75
tgcaacagct cttttgagag gaggcctaaa ggacaggaga aaaggtcttc aatcgtggaa
agaaaattaa atgttgtatt aaatagatca ccagctagtt tcagagttac catgtacgta
120
ttccactage tgggttctgt atttcagttc tttcgatacg gcttagggta atgtcagtac
aggaaaaaaa ctgtgcaagt gagcacctga ttccgttgcc ttgcttaacc ctaaagcncc
atgtcnnggg cnaaaancga aaaat
265
<210> 76
<211> 251
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 76
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120
aaaactgaat tggnatagaa ttggtaagtt gcaaagnctt tttgaaaata attaaattat
catatettee attectgtta ttggaggatg gaaaataaaa agcaacttat ggaaagtagg
acattcagat c
251
<210> 77
<211> 291
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
ccttaatctc agttgtttgc ttcaaggacc tttcatcttc aggatttaca gtgcattctg
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naagangaga catcaaacag aattaggngt tgtgcaaaag ctcttttgag aggaggccta
aaggacagga gaaaaggtct ncaatcgtgg aaagnaaatt aaatgttgta tnaaatngat
caccagctag tttcagagtt accatgtacg tattccacta gctgggncng tattcagtct
ttcggaacgg cttagggtaa tgtcagtaca gganaaaaac tgtgcagtga g
291
<210> 78
<211> 253
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 78
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gctgatagga cagactggat tttncatatt tcttattaaa atttctgcca tttagaagaa
120
gagaactaca ttcatggttt ggnagagata aacctgaaaa gaagagtggc cttatcttca
180
ctttatcgat aagtcagttt atttgtttca tgtgtacatt tttatattct cctttgacat
240
ataacgtggc ttt
253
<210> 79
<211> 204
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 79
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ttttaccaaa ggtatttaat attctttttt atgacaactt agatcaacta tttttagctt
ggtaaatttt tctaaacaca attgttatag ccagaggaac aaagatgata taaaatattg
ttgctctgan aaaaatacat gtat
204
<210> 80
<211> 303
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 80
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gggcctaaaa tcgtataaaa tctggannnn nnnnnnnnn nnnngctcat attcacatat
gtaaaccaga acattctatg tactacaaac ctggttttta aaaaggaact atgttgctat
180
```

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gaattaaact tgtgtcgtgc tgataggaca gactggattt ttcatatttc ttattaaaat
240
ttctgccatt agaagaagag aactacnttc anggtttgga agagataacc ctgaaaagan
300
999
303
<210> 81
<211> 228
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 81
qctcatattc acatatgtaa accagaacat tctatgtact acaaacctgg tttttaaaaa
qqaactattt gctatgaatt aaacttgtgt cgtgctgata ggacagactg gntttttcat
120
atttcttatt anaatttctg ccattagaag aagagaacta cattcatggt ttggaagaga
taaacctgaa aagaagagtg gcctatttca ctttatcgat aagtcagt
228
<210> 82
<211> 193
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 82
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ggaactatgt tgctatgaat taaacttgtg tcgtgctgat aggacagact ggatttttca
120
tatttcttat taaaatttct gccatttaga agaagagaac tacattcatg gtttggaaga
gataaacctg aaa
193
<210> 83
<211> 282
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 83
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atcatatctt ccattcctgt tattggagat gaanataaaa agcaacttat gaaagtagac
attcagatcc agccattact aacctattcc ttttttgggg aaatctgagc ctagctcaga
aaaacataaa gcaccttgaa aaagacttgg cagcttcctg ataaagcgtg ctgtntgtca .
gtaggaacac atcctattta ttgtgatgnt gtggtttatt at
282
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<210> 84
<211> 279
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 84
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120
agtgagcacc tgattccgtt gccttggctt aactctaaag ctccatgtcc tgggcctaaa
180
atcgtataaa atctggattt ttttnttttt ttttgcgcat attcacatat gtaaaccagn
240
acattctatg tacnacaaac ctggttttta aaaaggaac
279
<210> 85
<211> 181
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 85
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tcgatacggc ttagggtaat gtcagtacag gaaaaaaact gtgcaagtga gcacctgatt
ccgttgcctt gcttaactct aaagctccat gtcctgggcc taaaatcgta taaaatctgg
180
а
181
<210> 86
<211> 269
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Human EST
<400> 86
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tggagatgaa aataaaaagc aacttatgaa agtagacatt cagatccagc cattactaac
120
ctattccttt tttggggaaa tctgagccta gctcagaaaa acataaagca ccttgaaaaa
gacttggcag cttcctgata aagcgtgctg tgctgtgcag tagggaacac atcctattta
240
ttgtgatgtt gtggtttata tcctaaacc
269
<210> 87
<211> 184
<212> DNA
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<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 87
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tttcagttcc tttcgatacg gcttagggta atgtcagtac aggaaaaaag ctgtgcaagt
gagcacctga ttccgttgcc ttgcttaact ctaaagctcc atgtcctggg cctaaaatcg
180
tata
184
<210> 88
<211> 164
<212> DNA
<213> Artificial Sequence
<223> Description of Artificial Sequence: Human EST
<400> 88
agataaacct gaaaagaaga gtggccttat nttcacttta tcgataagtc agnttatttg
tttcattgtg tacatttnna tattctcctt ttgacattat aactgntggc ttttctaanc
ntgttaaata tatctatttt taccaaaggt atttaatatt cttt
164
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120
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120
tattcacata tgtaaaccag aacattctat gtactacaaa cctggttttt aaaaaggaac
tatqttqcta tgaattaaac ttgtgtcgtg ctgataggac agactggatt tttcatattt
240
ctta
244
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<211> 254
<212> DNA
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naataaaaag caacttatga aagtagacat tcagatccag ccattactaa cctattcctt
120
ttttggggaa atctgagcct agcncagaaa aacataaagc accttgaaaa agacttggca
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gnggttttat gatc
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gctcatattc acatatgtaa accagaacat tctatgtact acaaacctgg tttttaaaaa
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240
tat
243
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ccat
244
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gctagagtta gattaatctg cnttttaaaa aactganttg gaatagantt ggtaagttgc
120
aaagncnttt gaaaatnatt aagttatcag at
152
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120
acacatccta tttattgtga tgttgtggtt ttattatcta aactctgttc catacacttg
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